# MINI PROJECT

# **REPORT**

# PROGRAM TO GENERATE BILL IN THE GS SHOE MART.

## By:

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#### **OBJECTIVE:**

The program is used to generate bill in the shoe mart to the get the details of the shoe, Remove the details of the shoe, Modify the details of the shoe and display the bill for the shoe you have bought.

## **DESCRIPTION:**

We used classes, objects, inheritance, and some other functions in Object oriented programming (OOPS) to create this program to generate the bills. Using getdata() function the details of the shoe is got from the user and store the details in the array. Using remove() function the details of the shoe got from the user is removed by the user when the wrong input is given. Using modify() function the details of the shoe entered by the user is modified using this function. Using Display() function the details of the shoe entered by user is shown in the output screen. It is very helpful for the shoe mart owners to generate the bills in their shops.

## **PROGRAM:**

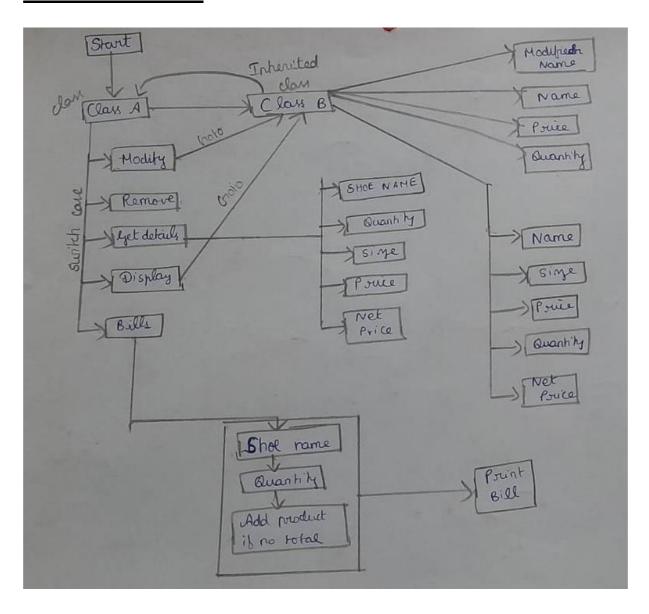
```
#include <iostream>
#include <cstring>
using namespace std;
class Shoe {
public:
  char name[20];
  int qty, s;
  float price, net = 0;
  void getdata();
  void Remove(Shoe*, int &);
};
class B : public Shoe {
public:
  void Display();
  void modify(B *, int);
  void Total(float, B *, int);
};
void Shoe::getdata() {
  cout << "\n Enter shoe Name: ";</pre>
  cin >> name;
  cout << "\n Enter the size of the shoe: ";
  cin >> s;
  cout << "\n Enter shoe Price: ";</pre>
  cin >> price;
  cout << "\n Enter shoe Quantity: ";</pre>
  cin >> qty;
  net = price * qty;
}
void Shoe::Remove(Shoe *order, int &no) {
  char key[15];
```

```
int i, j;
  cout << "\n Enter the shoe Name to Remove: ";
  cin >> key;
  for (i = 0; i \le no; i++)
     if (strcmp(order[i].name, key) == 0) {
       for (j = i; j \le no; j++)
          order[j] = order[j + 1];
       no--;
       break;
     }
  if(i > no)
     cout << "No shoe exists.\n";
  else
     cout << "Shoe has been removed from the list.\n";
}
void B::modify(B *order, int no) {
  char key[15];
  int i, j;
  cout << "\n Enter the shoe Name to modify: ";
  cin >> key;
  for (i = 0; i \le no; i++)
     if (strcmp(order[i].name, key) == 0) {
       cout << "\n Enter shoe Name: ";
       cin >> order[i].name;
       cout << "\n Enter the shoe Price: ";</pre>
       cin >> order[i].price;
       cout << "\n Enter the shoe Quantity: ";
       cin >> order[i].qty;
       order[i].net = order[i].price * order[i].qty;
       break;
     }
  if(i > no)
     cout << "Shoe does not match.\n";</pre>
  else
     cout << "Shoe has been modified.\n";
```

```
}
void B::Display() {
  cout << "\n\t Shoe Name:" << name;</pre>
  cout << "\n\t Shoe size:" << s;
  cout << "\n\t Price :" << price;</pre>
  cout << "\n\t Quantity :" << qty;</pre>
  cout << "\n\t Net Price:" << net;
}
void B::Total(float totalAmount, B *order, int no) {
  cout << "\n\n Shoe Purchase Order Details";</pre>
  for (int i = 0; i \le no; i++) {
     cout << "\n\n Shoe No.: " << i + 1;
     order[i].Display();
  cout << "\n\n\tThe total amount is: $" << totalAmount << endl;
}
int main() {
  B s, bills[40];
  int ch, no = -1;
  float totalAmount = 0;
  char ch2;
  while (ch != 6) {
     cout << "\n GS SHOE MART";</pre>
     cout << "\n $$$$$$$$$$$$$$$$$$$$$;;
     cout << "\n 1. shoe Details.";
     cout \ll "\n 2. Display .";
     cout << "\n 3. Remove .";
     cout \ll "\n 4. Modify .";
     cout << "\n 5. Generate Bill .";
     cout << "\n 6. Exit.";
     cout << "\n Enter your choice: ";</pre>
     cin >> ch;
     switch (ch) {
        case 1:
          no++;
```

```
cout << "\n Entry of Purchased shoes.";</pre>
        cout << "\n $$$$$$$$$$$$$$$$$$$$;;
        cout \ll "\n shoe No." \ll no + 1;
        bills[no].getdata();
        break:
     case 2:
        cout << "\n Purchase Order Details.";</pre>
        for (int i = 0; i \le no; i++) {
          cout \ll "\n\n shoe No.: " \ll i + 1;
          bills[i].Display();
        break:
     case 3:
        s.Remove(bills, no);
        break:
     case 4:
        s.modify(bills, no);
        break:
     case 5:
        totalAmount = 0;
       for (int i = 0; i \le no; i++) {
          totalAmount += bills[i].net;
       if (totalAmount > 0)
          s.Total(totalAmount, bills, no);
        else
          cout << "\n No items purchased yet.\n";
        break:
     case 6:
        cout << "Bill generated successfully.\n";</pre>
        return 0:
     default:
        cout << "Invalid choice!\n";</pre>
        break;
return 0;
```

#### **ARCHITECTURE:**



#### **OUTPUT:**

```
GS SHOE MART
$$$$$$$$$$$$$$$$$$$$$$$$
                                  Entry of Purchased shoes.
1. shoe Details.
2. Display .
                                  $$$$$$$$$$$$$$$$$$$$$$$$$$
3. Remove .
                                  shoe No. 2
4. Modify .
5. Generate Bill .
                                  Enter shoe Name: cross
6. Exit.
Enter your choice: 1
Entry of Purchased shoes.
                                  Enter the size of the shoe: 10
$$$$$$$$$$$$$$$$$$$$$$$$$
shoe No. 1
Enter shoe Name: bata
                                  Enter shoe Price: 1000
Enter the size of the shoe: 10
Enter shoe Price: 500
                                  Enter shoe Quantity: 1
Enter shoe Quantity: 1
```

```
GS SHOE MART
$$$$$$$$$$$$$$$$$$$$$$$$$
1. shoe Details.

    Display .
    Remove .

4. Modify .
5. Generate Bill .
6. Exit.
Enter your choice: 5
Shoe Purchase Order Details
Shoe No.: 1
        Shoe Name:bata
        Shoe size:10
        Price:500
        Quantity:1
        Net Price:500
Shoe No.: 2
        Shoe Name:cross
        Shoe size:10
        Price :1000
        Quantity:1
        Net Price:1000
       The total amount is: $1500
```

#### **RESULT:**

The above c++ program to generate the bill in a shoe mart using classes objects and inheritance is successfully executed and the output is verified.